

*cont*  
*AC*  
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34. (New) The method of claim 32, wherein the array comprises subarrays that are spatially separated from each other, and wherein the location of the subarrays on the substrate uniquely identifies the types of beads located therein

35. (New) The method of claim 32, wherein the formation of the target-biomolecule complexes results in an optical signature being associated with said complexes, and the detection of the complexes is accomplished by detecting the presence of the optical signature.

36. (New) The method of claim 35, wherein the optical signature comprises a fluorescent signal.

37. (New) The method of claim 32, wherein the biomolecules comprise peptides or proteins.

38. (New) The method of claim 32, wherein the biomolecules comprise oligonucleotides or nucleic acids.

39. (New) The method of claim 32, wherein the biomolecules comprise ligands or receptors.

40. (New) The method of claim 32, wherein the substrate comprises a silicon electrode.

REMARKS

*Sub Obj*

This Preliminary Amendment is being submitted in order to introduce new claims. Examination on the merits is respectfully requested. It is believed that no fee is required in connection with the filing of this Amendment. The Commissioner is hereby authorized to charge

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any fee deficiency, if it exists, to our Deposit Account No. 50-1570.

Respectfully submitted,

  
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